

**RECLAMATION PLAN
LEBATA BIG ROCK CREEK
AGGREGATE SURFACE MINE AND PROCESSING FACILITIES**

AUGUST 2014

ATTACHMENT A

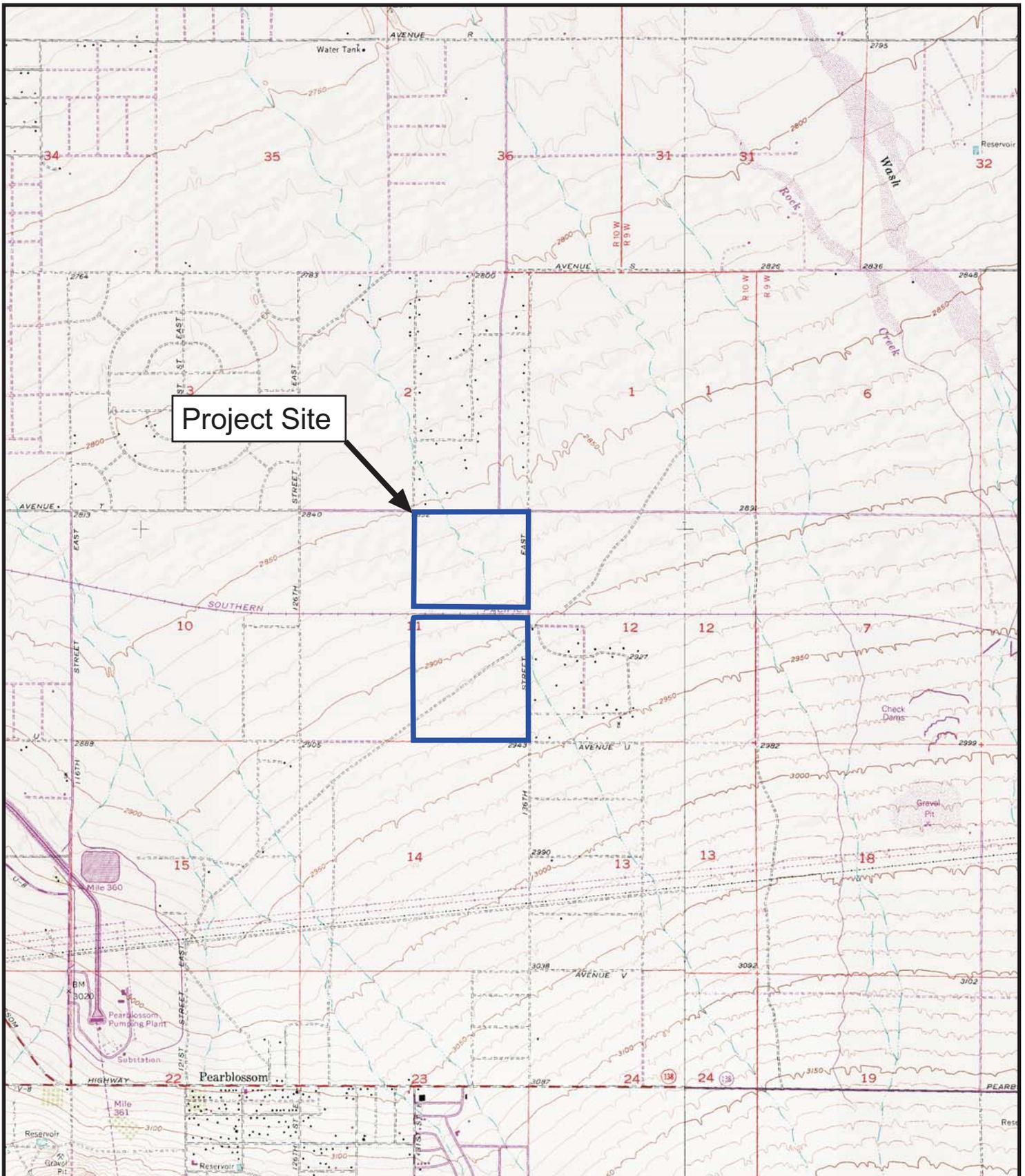
Figures

ATTACHMENT A

Figure 1 Regional Map

ATTACHMENT A

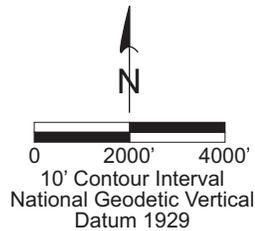
Figure 2 Vicinity Map



Project Site

Source: USGS 7.5 Minute Topographic Quadrangle
 Littlerock & Lovejoy Buttes, California 1957
 Photorevised 1992
 (C)2002 DeLorme, XMap(R) 3.5

Legend:
 Project Boundary

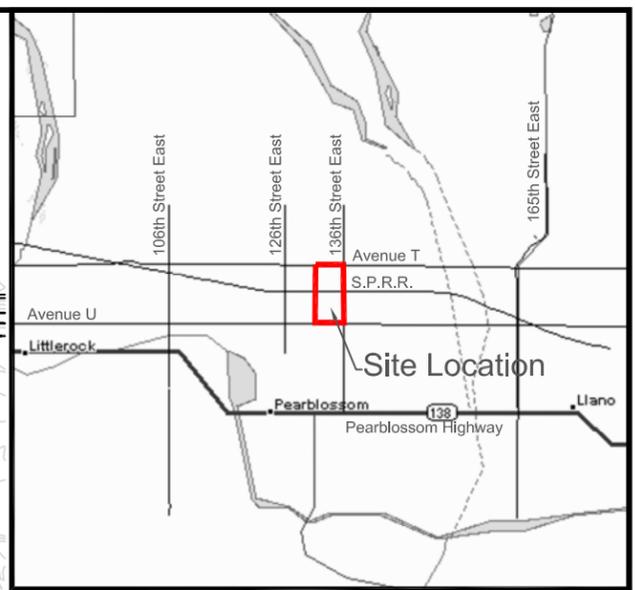
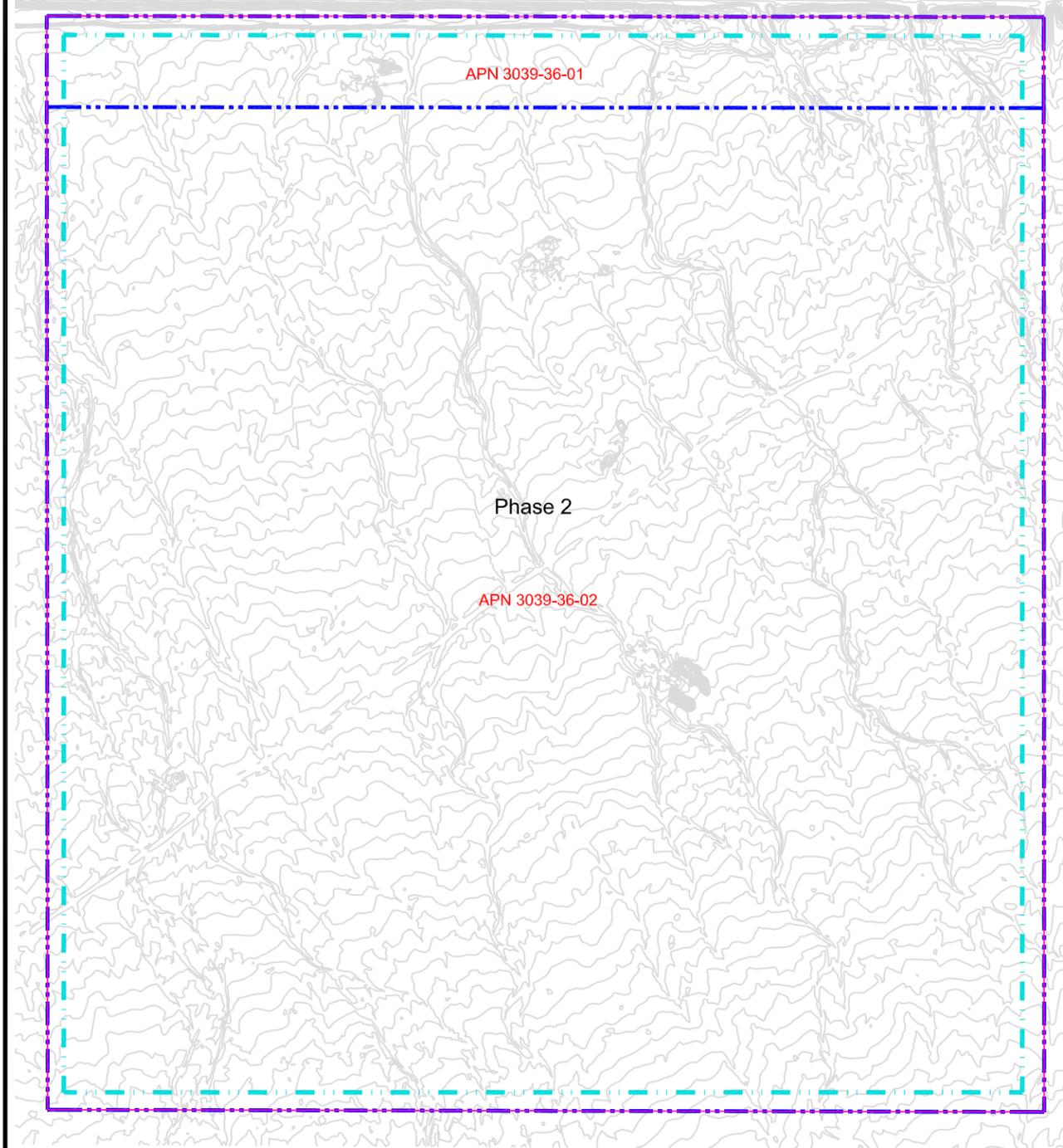
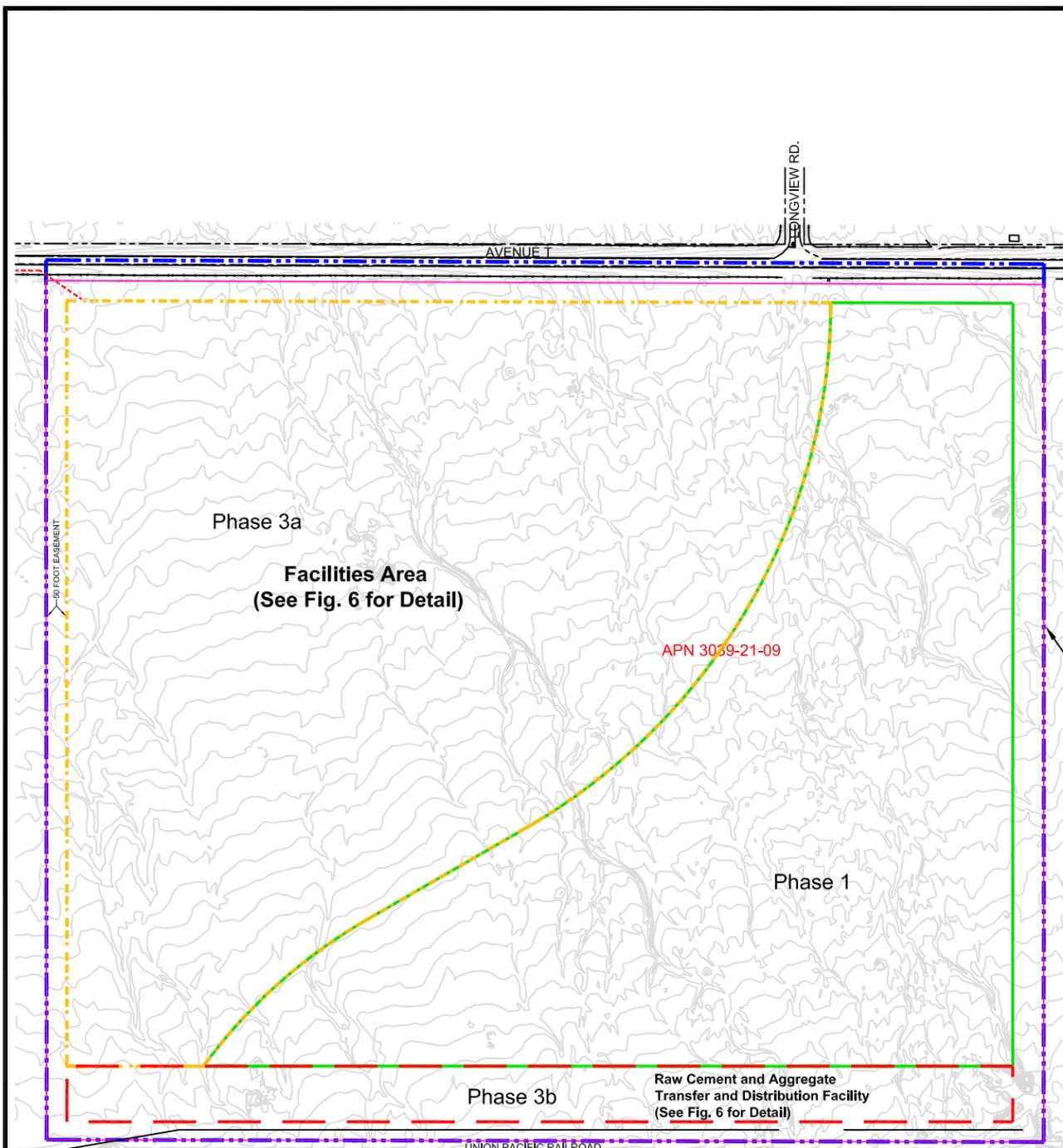


Source: West Coast Environmental, 11-20-2008

Vicinity Map Big Rock Creek Site Antelope Valley, California		FIGURE 2
Scale: As Shown	Date: 3-13-2012	

ATTACHMENT A

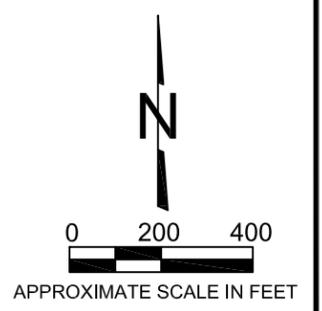
Figure 3 Site Plan



Vicinity Map
 N.T.S.

LEGEND:

-  Assessors Parcel Boundaries
-  CUP Boundary
-  Phase 1 Mining Boundary
-  Phase 2 Mining Boundary
-  Phase 3a Mining Boundary
-  Phase 3b Mining Boundary
-  Existing Contours

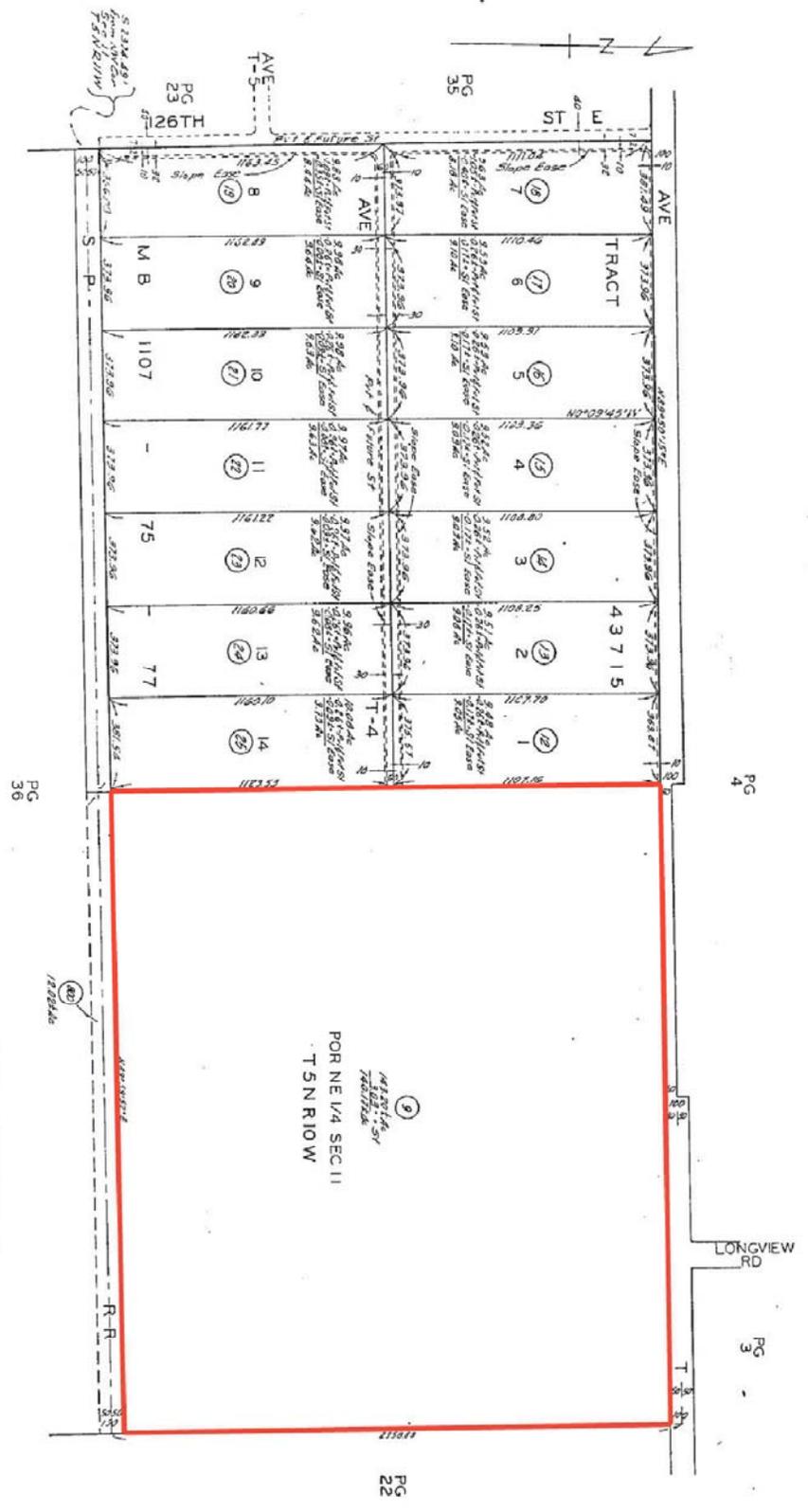


SOURCE: West Coast Environmental 02/02/09

Site Plan Big Rock Creek Site Antelope Valley California		FIGURE 3
SCALE: AS SHOWN	DATE: 3-16-2012	

ATTACHMENT A

Figure 4 Assessor's Parcel Map 1



Lots 1 to 31 of Tract No. 43715 are subject to Flood Hazard. For record dimensions of the Private & Future Streets see recorded map of Tract No. 43715.

Source: USGS 7.5 Minute Topographic Quadrangle
Little Rock & Loveloy Buttes, California 1957
Photorevised 1992
(C)2002 DeLorme, XMap(R) 3.5

Legend:
Project Boundary



Source: West Coast Environmental, 12-31-2008

Assessor's Parcel Map 1
Big Rock Creek Site
Antelope Valley, California

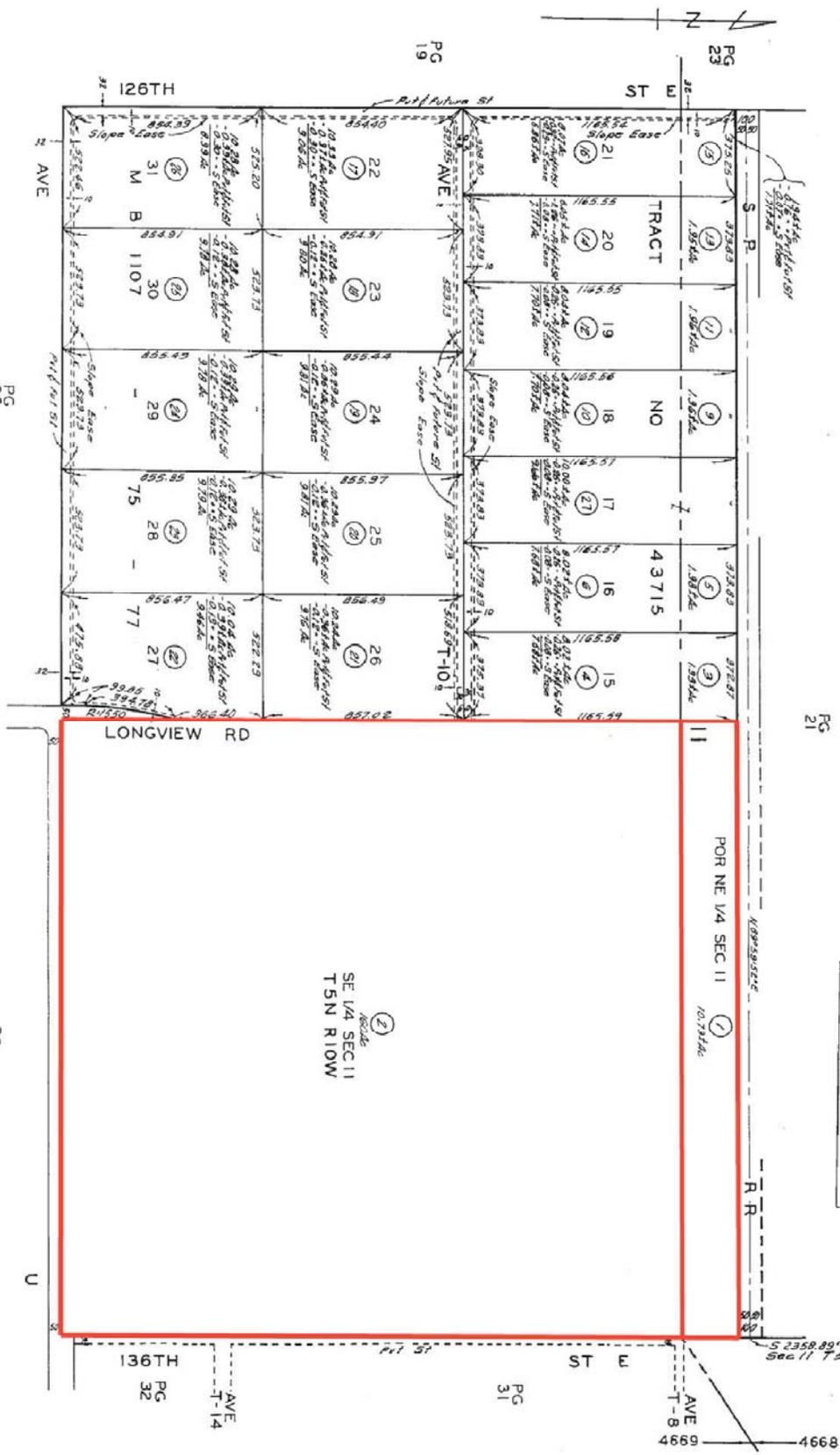
Scale: NTS Date: 3-13-2012

ATTACHMENT A

Figure 5 Assessor's Parcel Map 2

1994

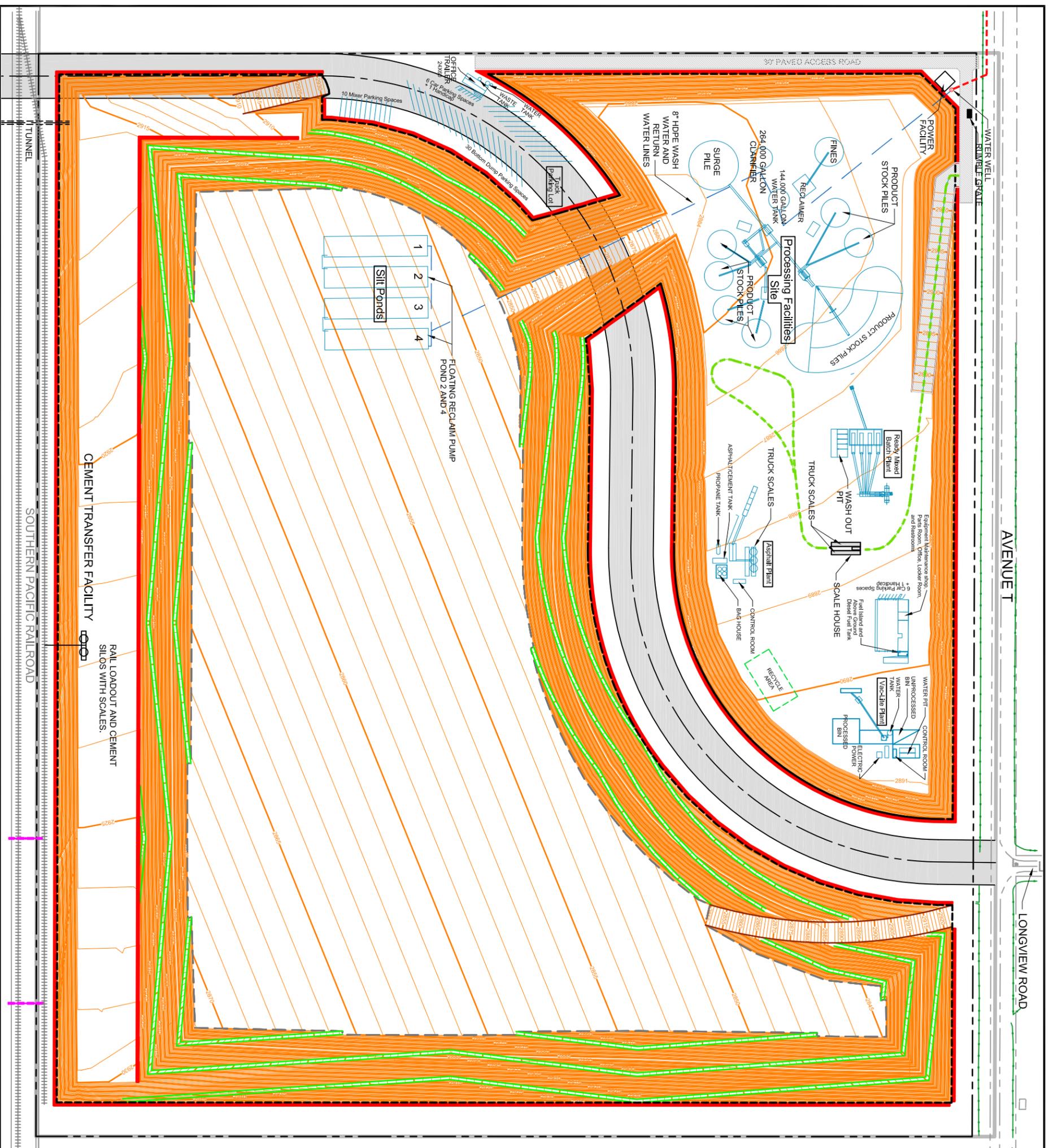
Lots 1 to 31 of Tract No. 43715 are subject to Flood Hazard. For record dimensions of the Private & Future Streets see recorded map of Tract No. 43715.



Source: West Coast Environmental, 12-31-2008
 Assessor's Parcel Map 2
 Big Rock Creek Site
 Antelope Valley, California
 FIGURE 5
 Scale: NTS Date: 3-13-2012

ATTACHMENT A

Figure 6 Lowered Facilities Alternative – Facilities Site Plan

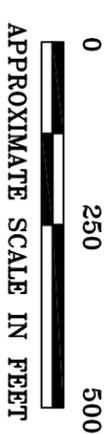


AVENUE T

LONGVIEW ROAD

LEGEND

- ASSESSORS PARCEL BOUNDARIES
- - - CUP BOUNDARY
- APPROXIMATE MAXIMUM MINING CONTOURS
(see Mining/Grading plans for detail)
- PROPOSED LONGVIEW ROAD EXTENSION
(750' RADIUS)
- - - AVEK PIPELINE (Alternative water source)
- - - INTERNAL HAUL ROUTE



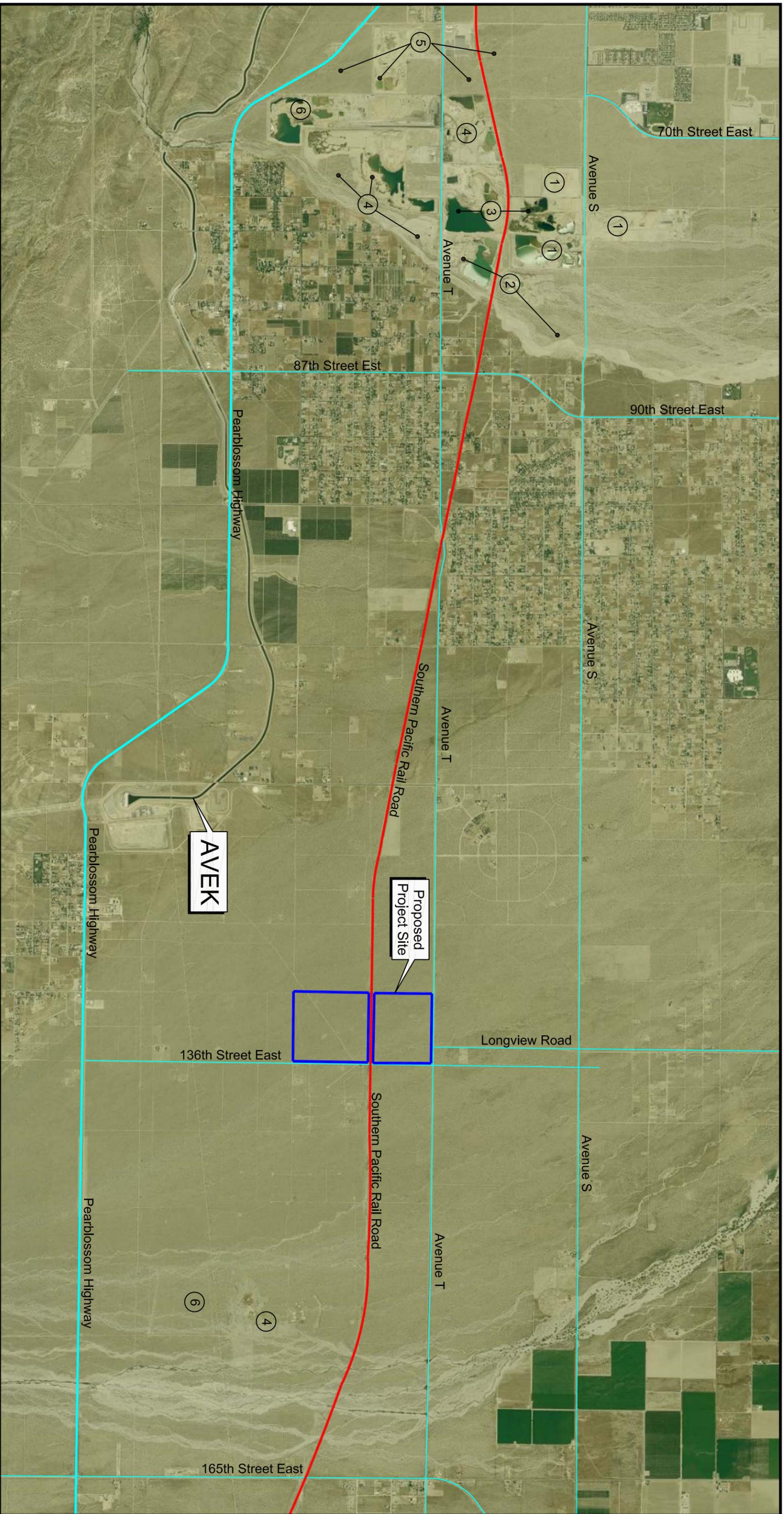
* This figure shows Facility Layout/Design. For contour detail please refer to Mining/Grading plans.

Lowered Facilities Alternative Facilities Site Plan		FIGURE 6
SCALE: AS SHOWN	DATE: 3-16-2012	

Big Rock Creek Site
Antelope Valley, California

ATTACHMENT A

Figure 7 Aerial Site Plan



- LEGEND:**
- ① Service Rock
 - ② Holiday Rock
 - ③ Antelope Valley Aggregate
 - ④ Vulcan Materials
 - ⑤ HI-Grade Materials
 - ⑥ Granite Construction

AVEK: Antelope Valley-East Kern Water Agency

AVEK

Proposed Project Site

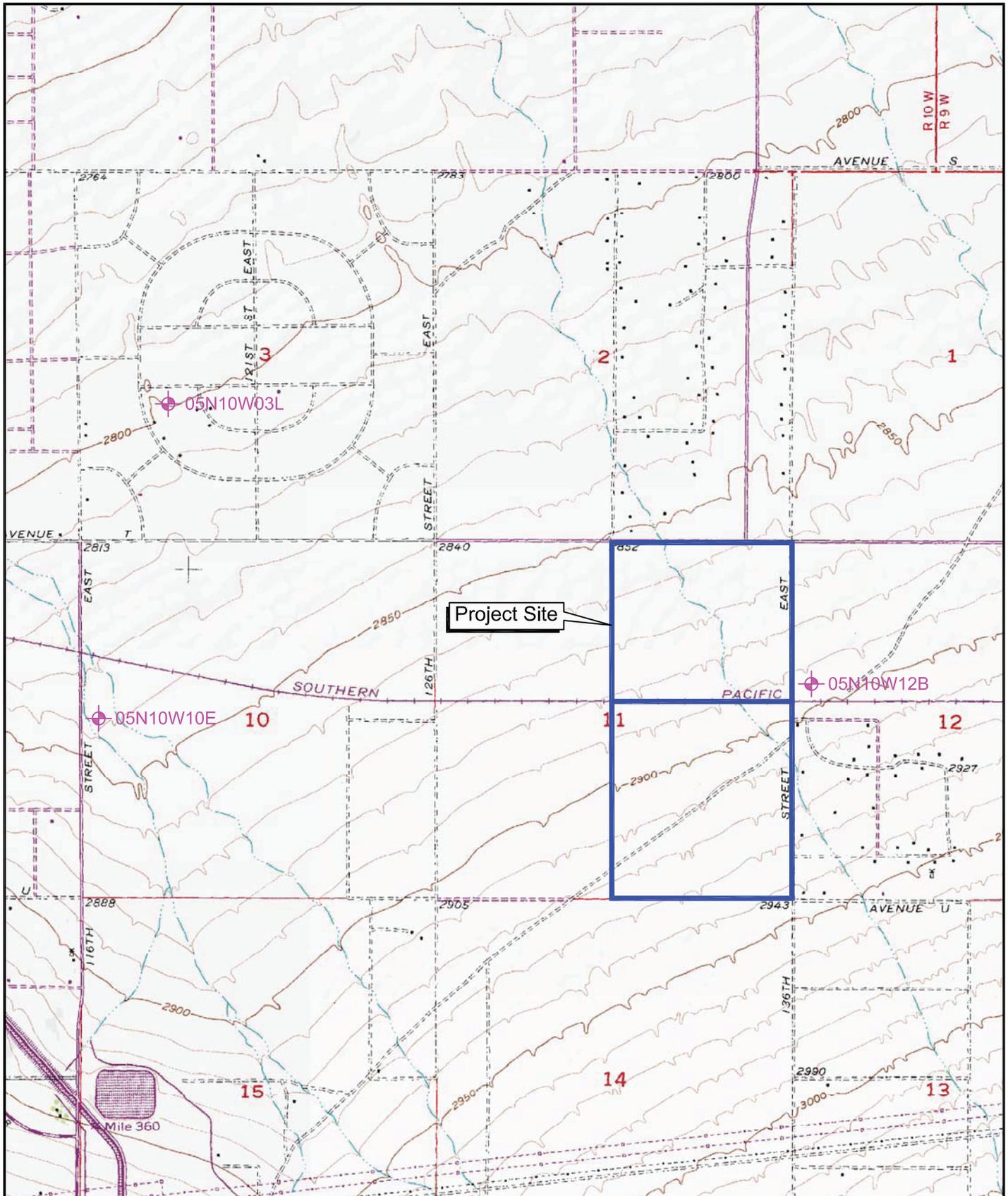


NOT TO SCALE

SOURCE: West Coast Environmental 11/20/08	
Aerial Site Plan	
Vicinity of Big Rock Creek Site	
Big Rock Creek Site	
Antelope Valley, California	
SCALE: AS SHOWN	DATE: 3-16-2012
FIGURE 7	

ATTACHMENT A

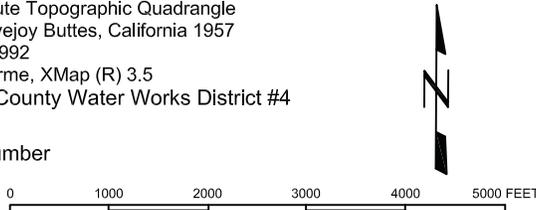
Figure 8 Local Water Wells



MCG100-Cont1.EIR NOV 20 2008\Local Water Wells

Source: USGS 7.5 Minute Topographic Quadrangle
 Littlerock & Lovejoy Buttes, California 1957
 Photorevised 1992
 (C) 2002 DeLorme, XMap (R) 3.5
 Los Angeles County Water Works District #4

 Well Number
 05N10W10E



SCALE 1:24000

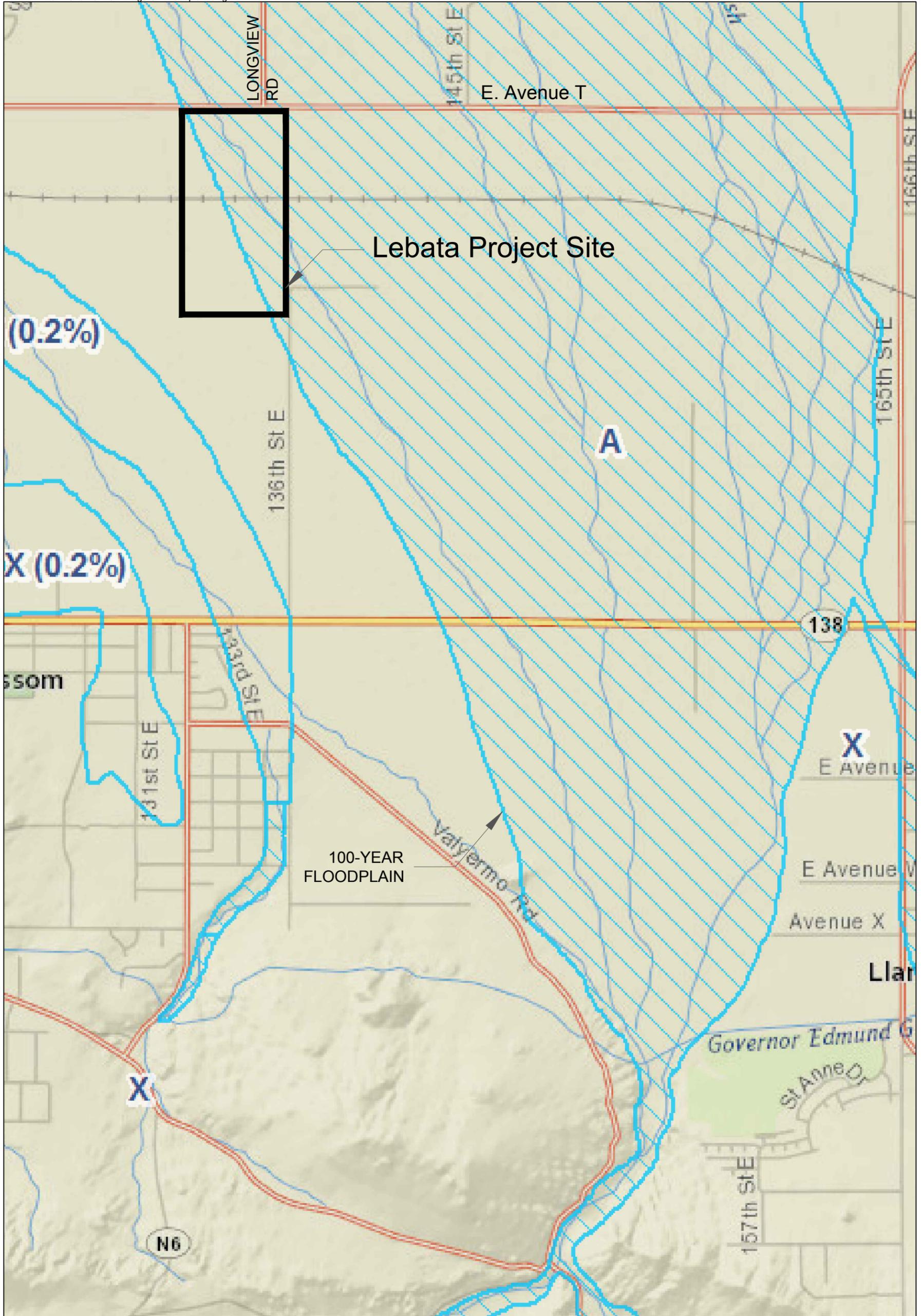
Source: West Coast Environmental, 11-20-2008

Local Water Wells Big Rock Creek Site Antelope Valley, California	FIGURE 8
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Scale: As Shown	Date: 3-13-2012
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ATTACHMENT A

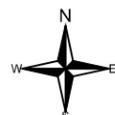
Figure 9 FEMA 100-Year Floodplain Map



LEGEND

-  100-YEAR FLOODPLAIN
-  500-YEAR FLOODPLAIN

NOTE: PROJECT SITE IS NOT WITHIN COUNTY ADOPTED FLOODWAY
 SOURCE: FLOODPLAIN MAP OBTAINED FROM THE LOS ANGELES COUNTY WEBSITE:
[HTTP://DPW.LACOUNTY.GOV/WMD/FLOODZONE/](http://DPW.LACOUNTY.GOV/WMD/FLOODZONE/)



SCALE: N.T.S.



DATE: October 4, 2013

JN: 2192

PROJECT LOCATION AND FEMA 100-YEAR FLOODPLAIN MAP

FEMA 100-Year Floodplain Map

FIGURE

Big Rock Creek Site
 Antelope Valley, California

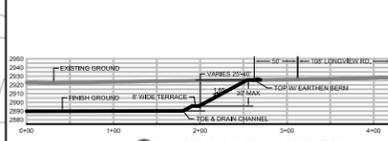
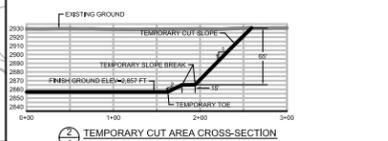
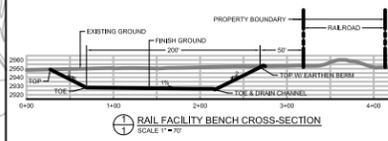
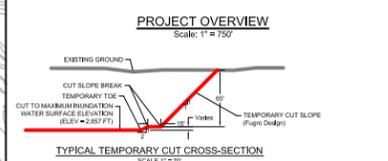
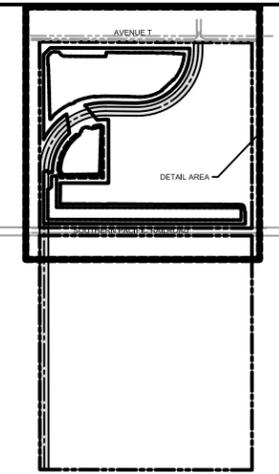
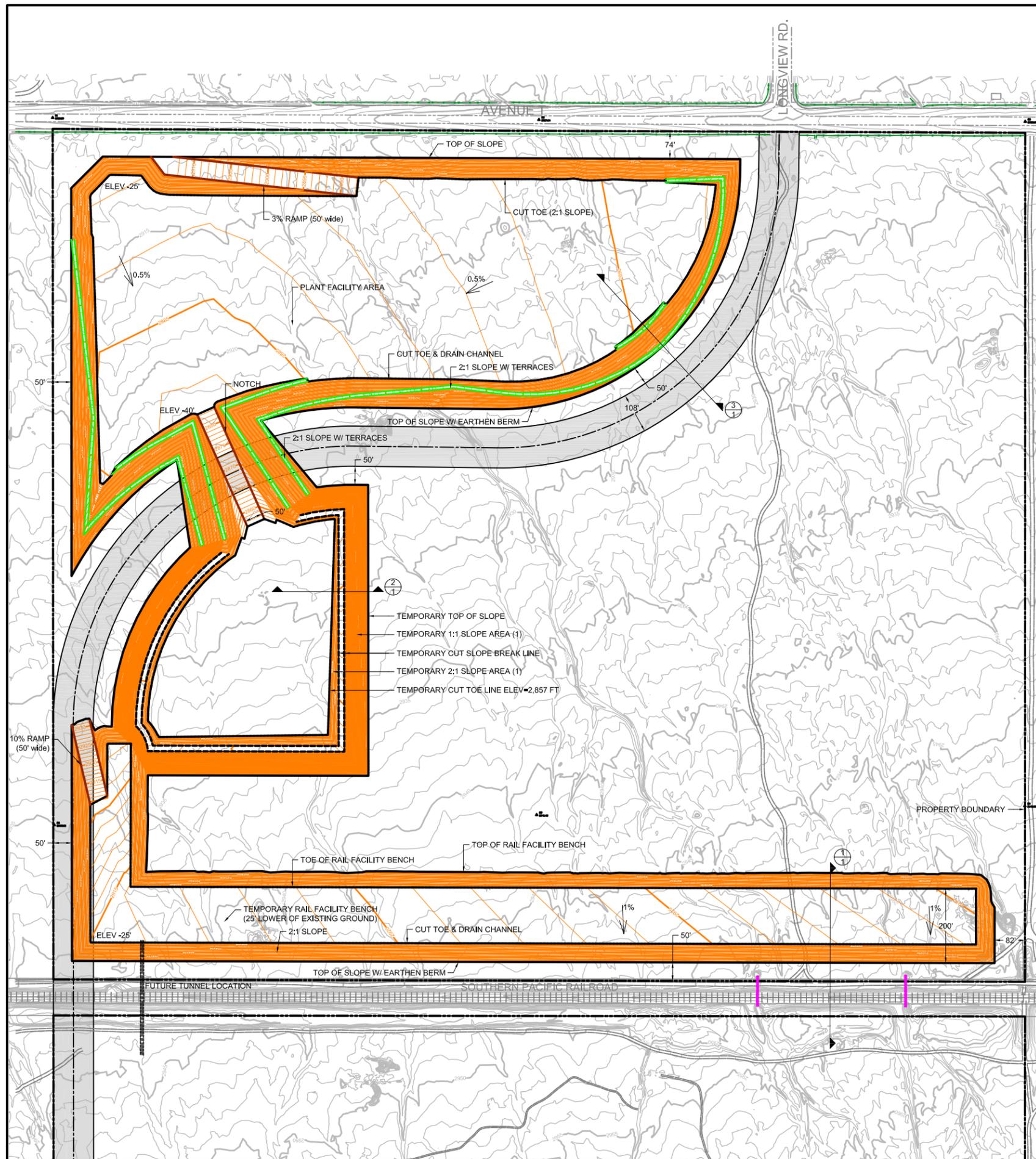
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SCALE: AS SHOWN

DATE: 10-21-2013

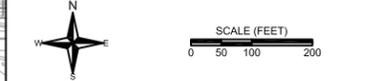
ATTACHMENT A

**Figure 10 Lowered Facilities Alternative - Preproduction Grading
Plan**



- LEGEND**
- PROPERTY BOUNDARY
 - EXISTING CONTOUR LINES
 - EXISTING DIRT ROAD
 - EXISTING CMP CULVERT
 - PROPOSED ROAD (750-FOOT TURNING RADIUS)
 - PHASE GRADING BOUNDARY
 - TOE OF SLOPE
 - PROPOSED CONTOUR LINES
 - PROPOSED RAMP
 - PROPOSED TERRACE
 - CUT SLOPE BREAK LINES

- NOTES:**
1. ALL TEMPORARY CUT SLOPES ARE BASED ON PIT SLOPE STABILITY EVALUATION PREPARED BY FUGRO WEST, INC., MAY 2010.
 2. PERMANENT CUT SLOPE FOR RAIL FACILITY BENCH AND PLANT FACILITY AREA ARE BASED ON LOS ANGELES COUNTY GRADING GUIDELINES. OVERALL CUT SLOPE IN THESE AREAS ARE 2(H):1(V) OR FLATTER.
 3. DRAINAGE PLAN FOR RAIL FACILITY BENCH AND PLANT FACILITY AREA ARE NOT SHOWING IN THIS SHEET. SEE SHEET 2 FOR DRAINAGE PLAN IN THESE AREAS.
 4. TERRACE DRAINS SHOWN FOR CONCEPTUAL APPROVAL. FINAL LOCATIONS PER MINING PLAN SOILS REPORT.

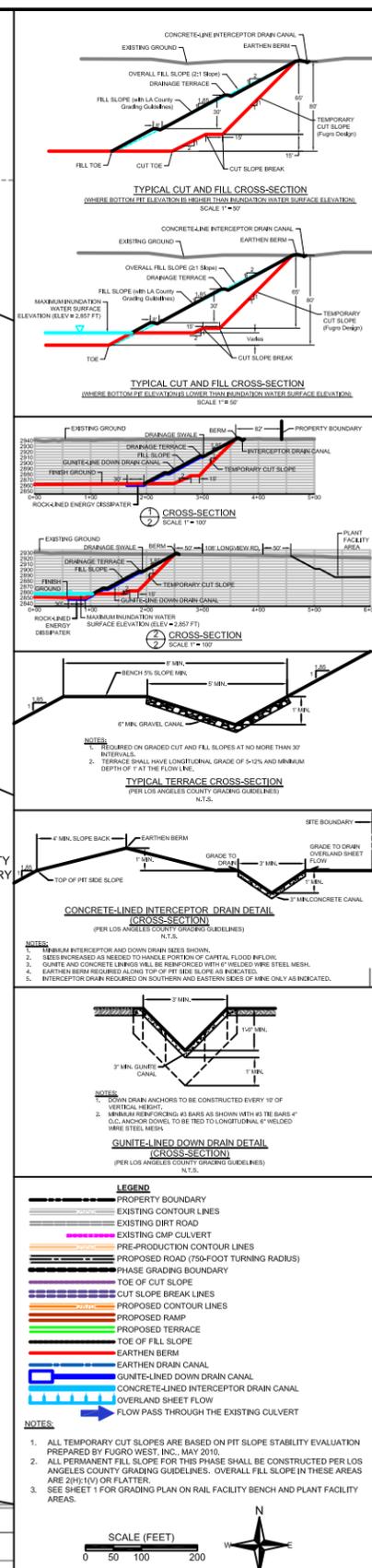
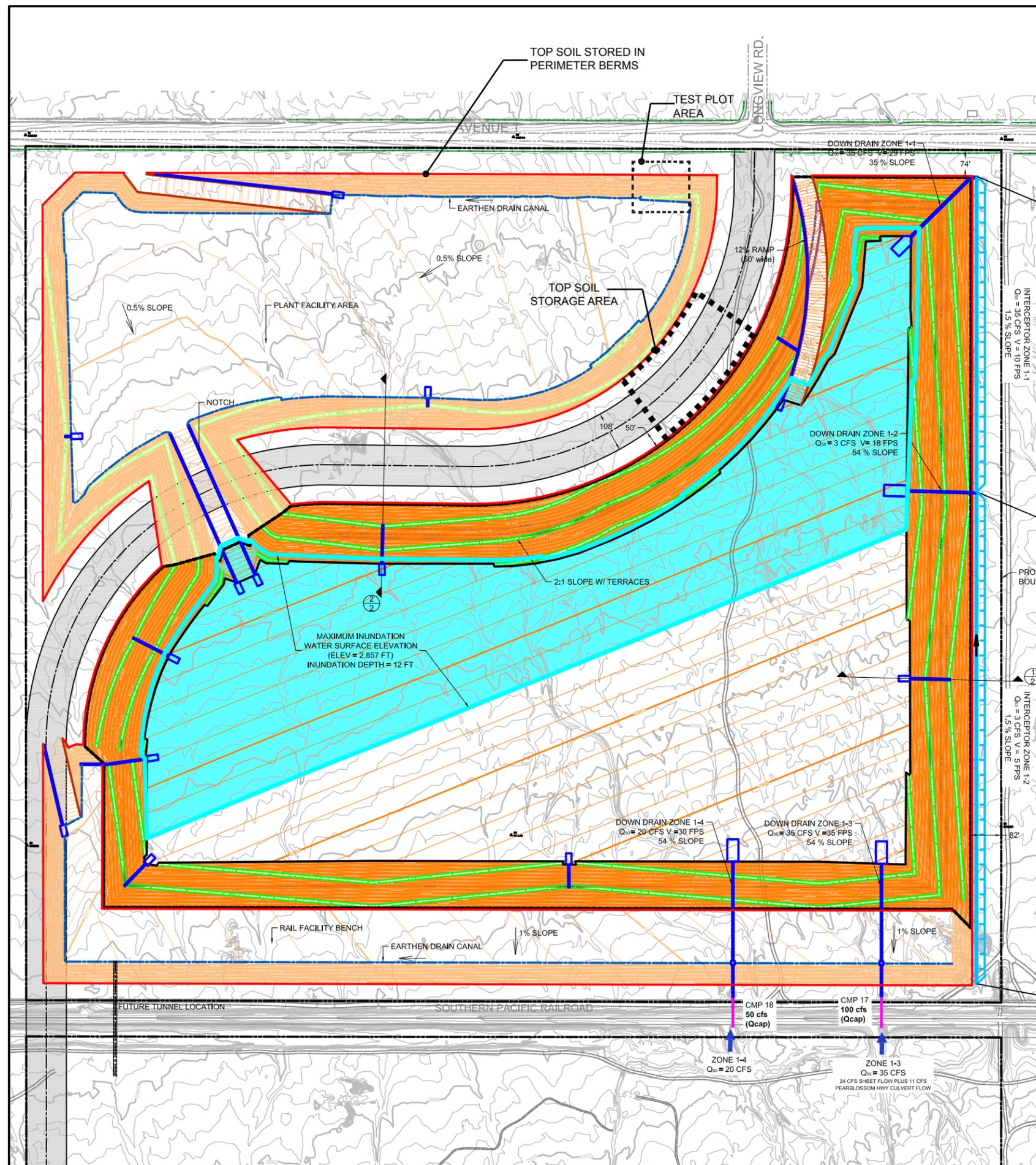


DRAINAGE CONCEPT/HYDROLOGY STUDY FOR SURFACE MINING PROJECT 200700001 (Lebata Inc.)	
LOWERED FACILITIES ALTERNATIVE PRE-PRODUCTION GRADING PLAN	JN: 2192 Scale: 1" = 100'
Cut Volume: 2,760,100 CY	Date: July 27, 2010
Topo Source: Inland Aerial Survey Inc. Date of Flight: 05/02/2006	SHEET
Designed By: G. Trinitad Drawn By: G. Trinitad	1 of 5
Reviewed By: J. Reilly Approved By:	

Lowered Facilities Alternative Pre-Production Grading Plan And Drainage Plan		FIGURE 10
Big Rock Creek Site Antelope Valley, California		
SCALE: AS SHOWN	DATE: 10-21-2013	

ATTACHMENT A

Figure 11 Lowered Facilities Alternative - Mining Phase 1 – North Pit



DRAINAGE CONCEPT/HYDROLOGY STUDY FOR SURFACE MINING PROJECT 200700001 (Lebata Inc.)

LOWERED FACILITIES ALTERNATIVE PHASE 1 GRADING AND DRAINAGE PLAN

Cut Volume: 7,483,300 CY | Date: July 27, 2010

Topo Source: Inland Aerial Survey Inc. | Date of Flight: 05/02/2006

Designed By: G. Trinidad | Drawn By: G. Trinidad

Revised By: J. Rully | Approved By:

Scale: 1" = 100'

Sheet: 2 of 5

Lowered Facilities Alternative Mining Phase 1 North Pit and Drainage Plan

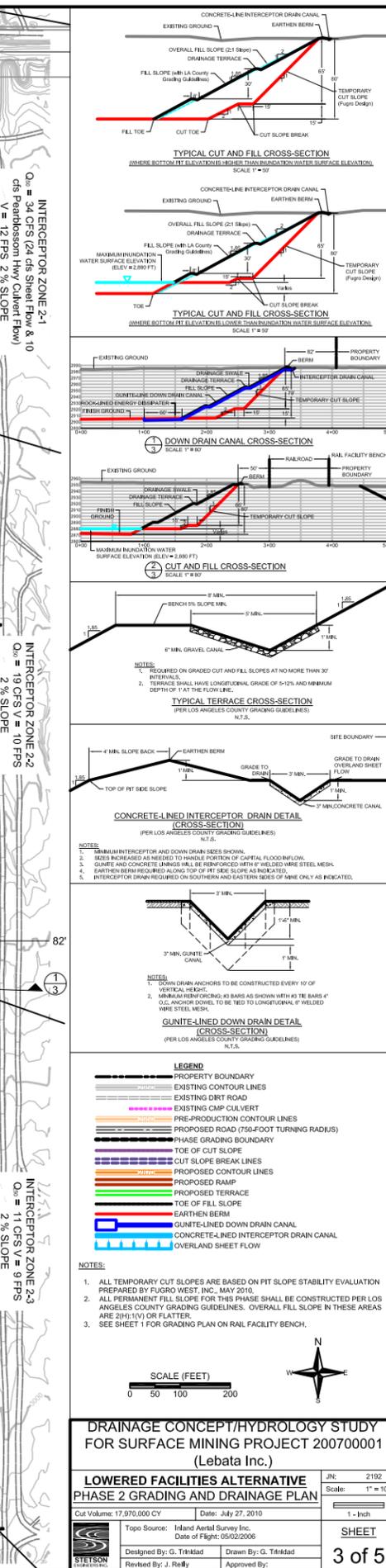
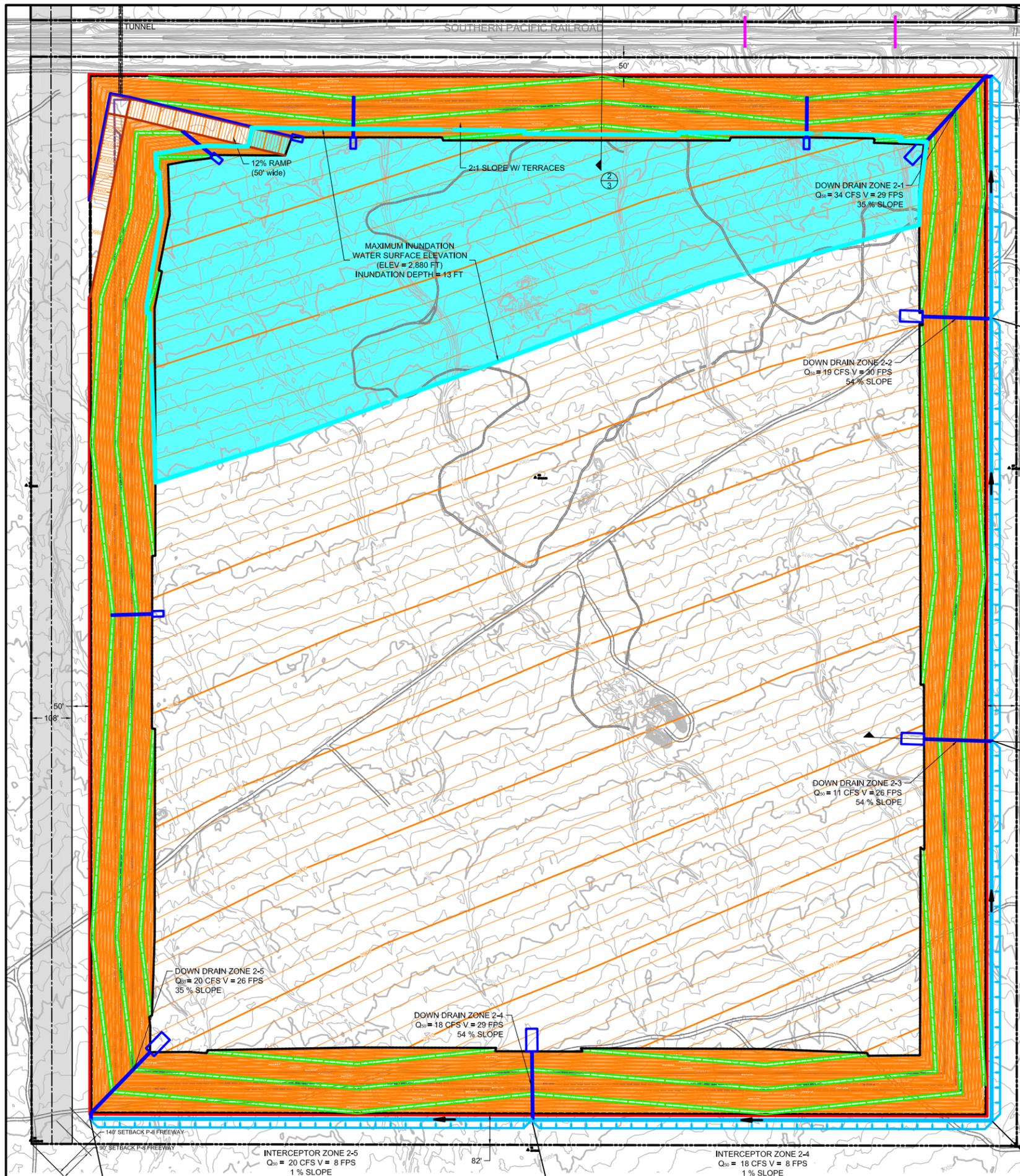
Big Rock Creek Site
Antelope Valley, California

FIGURE 11

SCALE: AS SHOWN | DATE: 10-21-2013

ATTACHMENT A

Figure 12 Lowered Facilities Alternative - Mining Phase 2 – South Pit



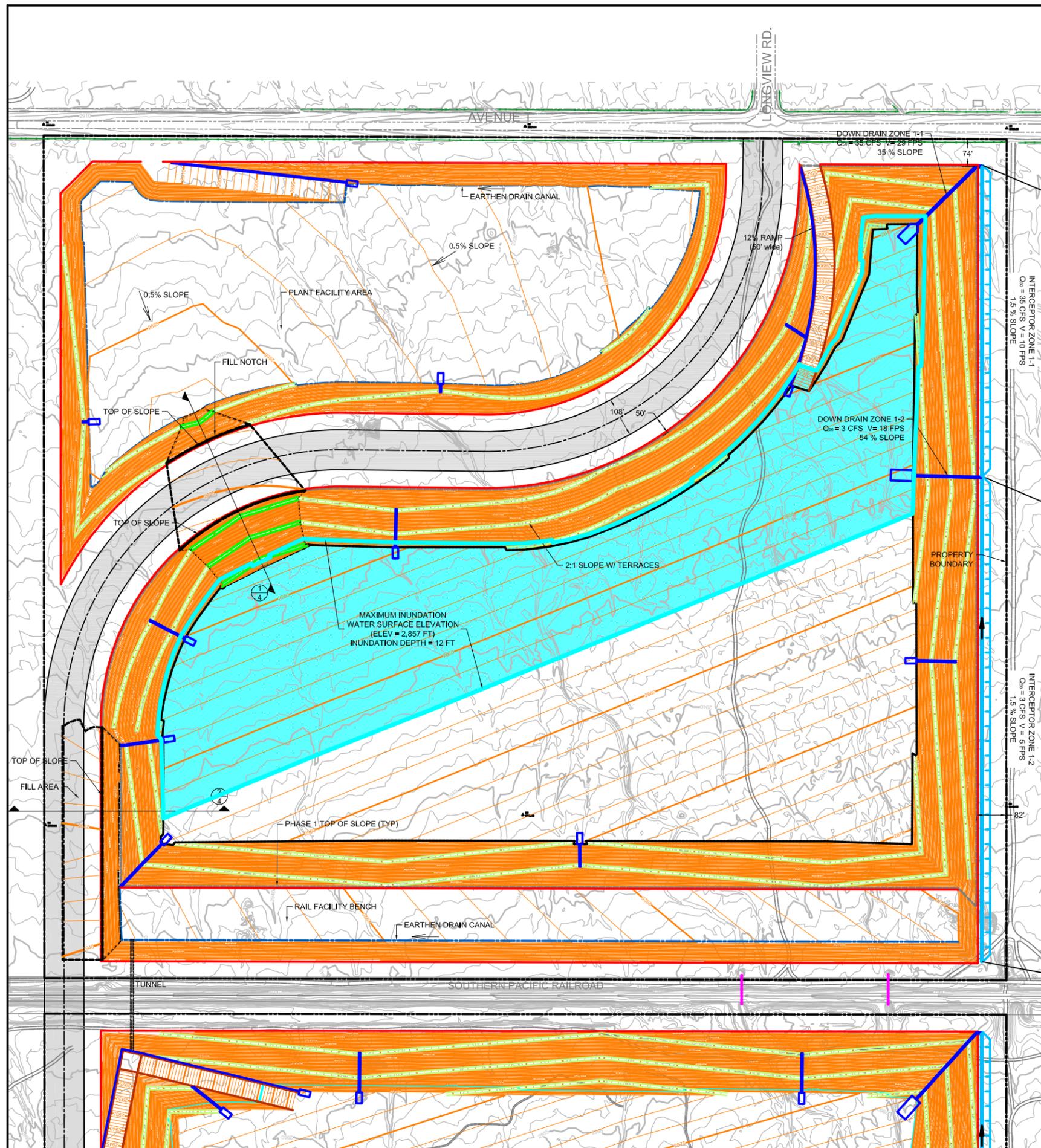
Lowered Facilities Alternative Mining Phase 2 North Pit and Drainage Plan
 Big Rock Creek Site
 Antelope Valley, California

FIGURE 12

SCALE: AS SHOWN DATE: 10-21-2013

ATTACHMENT A

**Figure 13 Lowered Facilities Alternative - Final Reclamation – North
Pit**



TYPICAL CUT AND FILL CROSS-SECTION
 (WHERE BOTTOM PIT ELEVATION IS HIGHER THAN FOUNDATION WATER SURFACE ELEVATION)
 SCALE 1" = 20'

TYPICAL CUT AND FILL CROSS-SECTION
 (WHERE BOTTOM PIT ELEVATION IS LOWER THAN FOUNDATION WATER SURFACE ELEVATION)
 SCALE 1" = 20'

CROSS-SECTION
 SCALE 1" = 20'

CROSS-SECTION
 SCALE 1" = 20'

TYPICAL TERRACE CROSS-SECTION
 (PER LOS ANGELES COUNTY GRADING GUIDELINES)
 N.T.S.

CONCRETE-LINED INTERCEPTOR DRAIN DETAIL
 (CROSS-SECTION)
 (PER LOS ANGELES COUNTY GRADING GUIDELINES)
 N.T.S.

GLULITE-LINED DOWN DRAIN DETAIL
 (CROSS-SECTION)
 (PER LOS ANGELES COUNTY GRADING GUIDELINES)
 N.T.S.

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR LINES
- EXISTING DIRT ROAD
- EXISTING CMP CULVERT
- PROPOSED ROAD (750-FOOT TURNING RADIUS)
- RECLAMATION FILL BOUNDARY
- FINAL CONTOUR LINES
- PROPOSED RAMP
- PROPOSED TERRACE
- EARTHEN BERM
- EARTHEN DRAIN CANAL
- GLULITE-LINED DOWN DRAIN CANAL
- CONCRETE-LINED INTERCEPTOR DRAIN CANAL
- OVERLAND SHEET FLOW

NOTES:

- ALL TEMPORARY CUT SLOPES ARE BASED ON PIT SLOPE STABILITY EVALUATION PREPARED BY FUGRO WEST, INC. MAY 2010.
- ALL PERMANENT FILL SLOPE FOR THIS PHASE SHALL BE CONSTRUCTED PER LOS ANGELES COUNTY GRADING GUIDELINES. OVERALL FILL SLOPE IN THESE AREAS ARE 2:1 (H:V) OR FLATTER.
- SEE SHEET 1 FOR GRADING PLAN ON RAIL FACILITY BENCH AND PLANT FACILITY AREAS.

SCALE (FEET)
 0 50 100 200

DRAINAGE CONCEPT/HYDROLOGY STUDY FOR SURFACE MINING PROJECT 200700001 (Lebata Inc.)

LOWERED FACILITIES ALTERNATIVE FINAL RECLAMATION NORTH PIT GRADING AND DRAINAGE PLAN

JN: 2192
 Scale: 1" = 100'

1 - Inch

SHEET 4 of 5

Topo Source: Inland Aerial Survey Inc. Date of Flight: 05/02/2008
 Designed By: G. Trinidad Drawn By: G. Trinidad
 Revised By: J. Reilly Approved By:

LOWERED FACILITIES ALTERNATIVE Final Reclamation And Drainage Plan - North Pit
 Big Rock Creek Site
 Antelope Valley, California

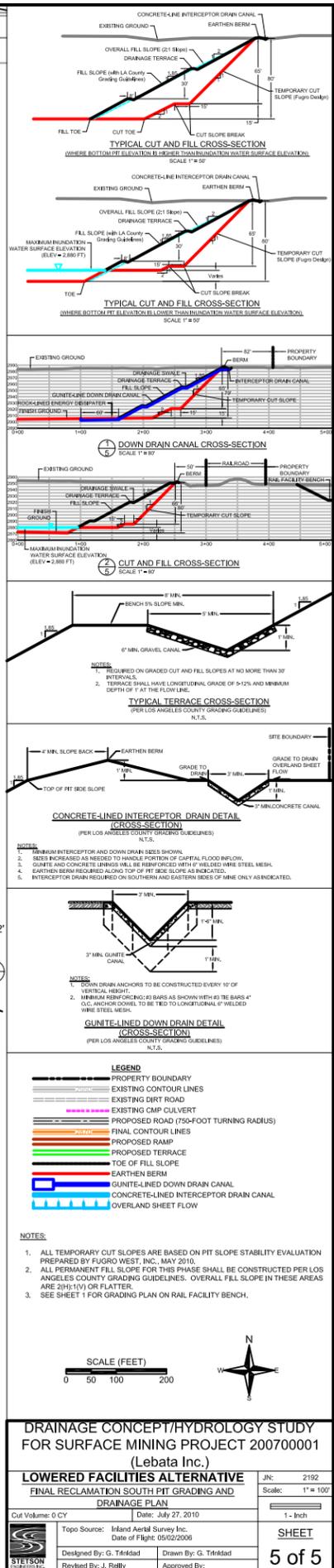
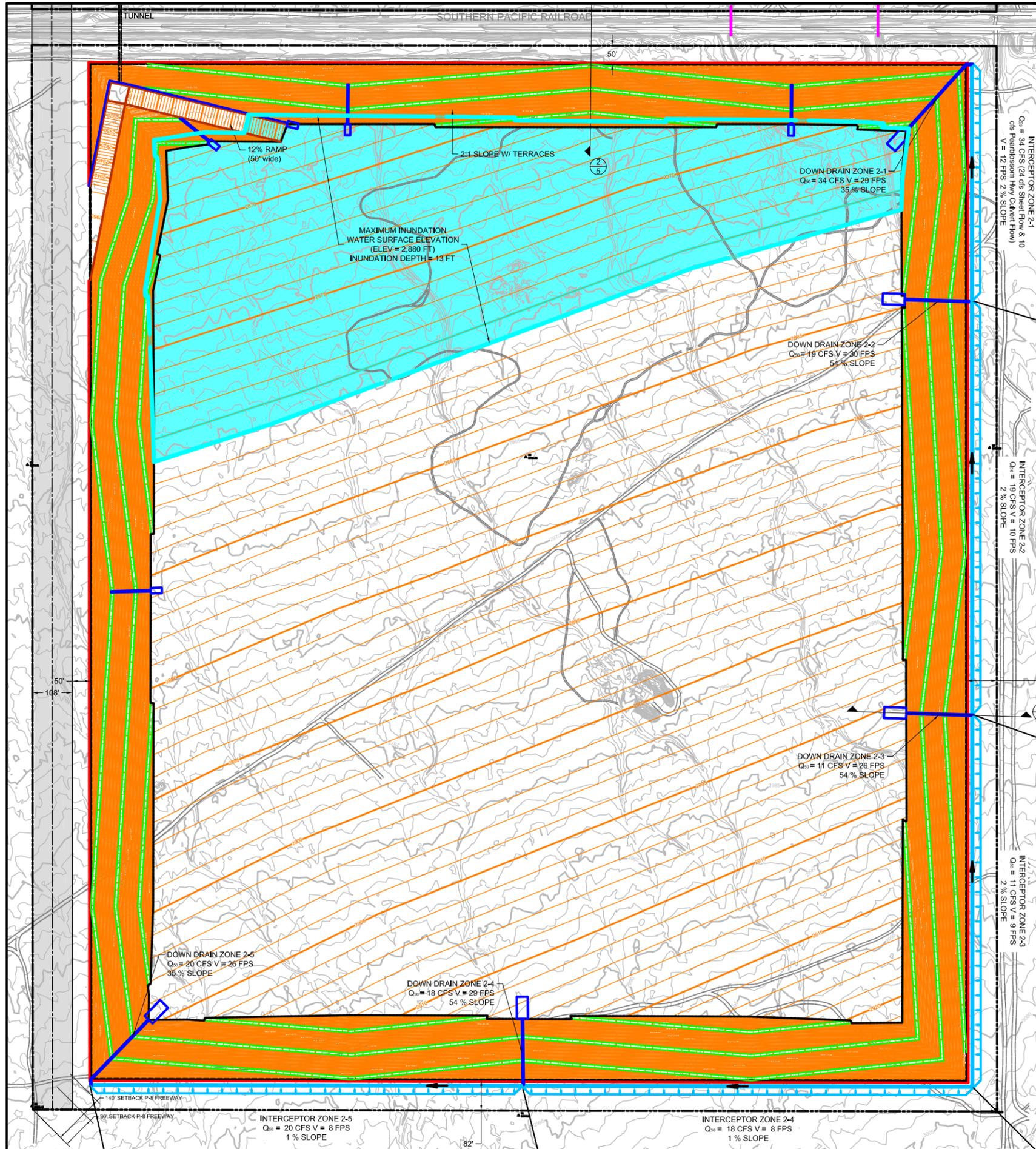
SCALE: AS SHOWN

DATE: 10-21-2013

FIGURE 13

ATTACHMENT A

**Figure 14 Lowered Facilities Alternative - Final Reclamation – South
Pit**



Lowered Facilities Alternative Final Reclamation and Drainage

Plan - South Pit
 Big Rock Creek Site
 Antelope Valley, California

FIGURE 14

SCALE: AS SHOWN DATE: 10-21-2013